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Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

1. General – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials . . . " line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . .," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

3. Contract Work – Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

4. Resales – Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."

5. Produced and Consumed – Forgings, foundries, and screw machine products – Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

Line No.	Materials, parts, and supplies		Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
				Cost, including delivery cost (freight-in)		
				(E)		
	(A)		(B)	574 Millions	Thou-sands	Dollars
1	FABRICATED METAL PRODUCTS (Except forgings)	Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2	\$		
2		All other fabricated metal products	340098 3			
3	Forgings		346000 3			
4	CASTINGS (Rough and semifinished)	Iron and steel	332001 7			
5		Aluminum and aluminum-base alloy	336005 4			
6		Other nonferrous	336003 9			
7	SHAPES AND FORMS (Except castings and forgings)	Steel	331002 6			
8		Copper and copper-base alloy	335105 3			
9		Other nonferrous shapes and forms	335090 7			
10	Insulated wire and cable (except magnet wire)		335790 2			
11	Magnet wire		335770 4			
12	Ball and roller bearings (mounted and unmounted)		356200 6			
13	Speed changers, gears, and industrial high-speed drives		356601 5			
14	Paperboard boxes and containers and corrugated paperboard		265001 8			
15	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes		282104 9			
16	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		308007 4			

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued											
Line No.	Materials, parts, and supplies				Census material code	Consumption of purchased materials and of materials received from other establishments of your company					
						Cost, including delivery cost (freight-in)					
	(A)				571	(B)				574	(E)
				Millions	Thou-	sands	Dollars				
17	Fabricated plastics products (except gaskets, hoses, and belting)				308004 1	\$					
18	Fabricated rubber products, except tires, tubes, hose, belting, and gaskets				306902 8						
19	Current-carrying wiring devices				364300 4						
20	COMPONENTS FOR ELECTRONIC CIRCUITRY, EXCEPT TUBES	Printed circuit boards			367201 1						
21		Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)			367981 8						
22		Semiconductors, including transistors, diodes, rectifiers, and integrated circuits			367408 2						
23		Capacitors			367501 4						
24		Resistors			367601 2						
25		Other components and accessories, n.e.c.			367990 9						
26	Used engine electrical equipment for rebuilding or to be used in rebuilding (starting motors, generators, alternators, motor and alternator cones)				190033 1						
27	Cost of all other materials and components, parts, containers, and supplies consumed				970099 8						
	Describe the principal materials, etc., included in this value.										
28	TOTAL Sum of lines 1–27 should equal item 10, line a					\$					
Item 18A – Not applicable to this report											
Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997											
INSTRUCTIONS											
<p>1. General – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.</p> <p>If quantities are requested, please use the unit of measure specified.</p> <p>If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.</p>						<p>3. Contract Work – Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.</p>					
<p>2. Valuation of Products – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.</p> <p>If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.</p>						<p>4. Resales – Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."</p>					
						<p>5. Detailed Data Reported Elsewhere – Items denoted by an asterisk (*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form.</p> <p>NOTE: Only CIR totals are requested; do not duplicate detail reported on the CIR.</p>					
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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued

Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports			Census product code 581	Total shipments, including interplant transfers			
					Value, f.o.b. plant (E)			
	(A)			(B)	584 Millions	Thou-sands	Dollars	
1	Ignition Harness and Cable Sets (36941)	IGNITION HARNESS SETS	Automotive type	36941 01 1	\$			
2			Other (including tractor, stationary engine, and aircraft)	36941 02 9				
3		CABLE SETS	Automotive type	36941 03 7				
4			Aircraft and other type	36941 04 5				
5	Battery Charging Alternators, Generators, and Regulators (36942)	BATTERY CHARGING ALTERNATORS AND GENERATORS FOR INTERNAL COMBUSTION ENGINES	Automotive types, new	36942 01 9				
6			Other types, new	36942 02 7				
7			Rebuilt, all types	36942 03 5				
8		Regulators for battery charging alternators and generators (new and rebuilt)		36942 04 3				
9	STARTING (Engine cranking) MOTORS (36943)	Automotive types, new		36943 01 7				
10		Other types, new		36943 02 5				
11		Rebuilt, all types		36943 03 3				
12	Spark plugs (all types) (36944)			36944 00 7				
13	OTHER COMPLETE ELECTRICAL AND ELECTRONIC EQUIPMENT FOR INTERNAL COMBUSTION ENGINES (36947)	Ignition coils (all types)		36947 01 8				
14		Distributors (all types)		36947 02 6				
15		Magnetos, magneto-dynamos, magnetic flywheels		36947 04 2				
16		Other complete ignition equipment (including electronic ignitions)		36947 05 9				
17		Electronic systems for complete engine control, using computers or microcomputers		36947 11 7				
18		Other complete electrical and/or electronic equipment for internal combustion engines (including complete engine control equipment except computers and microprocessors) - Specify kind		36947 19 0				
19	Parts for Engine Electrical and/or Electronic Equipment (36949)	Armatures, field coils, and drive-end housings for cranking motors		36949 01 4				
20		Armatures and field coils for alternators and generators		36949 07 1				
21		PARTS FOR IGNITION DISTRIBUTORS	Distributor heads and rotors		36949 11 3			
22			Breaker point sets		36949 12 1			
23			Condensers (capacitors)		36949 13 9			
24		Other parts for engine electrical and/or electronic equipment - Specify kind		36949 19 6				
25	Parts and supplies for electric motors and generators and other rotating equipment (corresponds to the sum of item codes 8590, 8591 and 8595 as reported on CIR Form MA36H, Motors and Generators, for 1997) (36219)*			36219 00 4				
26	Switches for electrical circuitry (including all vehicle switches)(corresponds to the sum of item codes 3109-3137 as reported on CIR Form MA36K, Wiring Devices and Supplies, for 1997) (36433)*			36433 00 1				

CONTINUE WITH ITEM 18B ON PAGE 8

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued						
Line No.	Products and services *Item corresponds to products reported on Current Industrial reports (A)		Census product code 581 (B)	Total shipments, including interplant transfers		
				Value, f.o.b. plant (E)		
				584 Millions	Thou- sands	Dollars
27	Motor vehicle instruments (corresponds to the sum of item codes 5531–5547 as reported on CIR Form MA38B, Selected Instruments and Related Products) (38244)* – Specify kind		38244 00 2	\$		
28	PARTS AND ACCESSORIES, NEW, N.E.C. (EXCLUDING GASOLINE ENGINE AND GASOLINE ENGINE PARTS; FILTERS; EXHAUST SYSTEM PARTS; DRIVE TRAIN COMPONENTS; WHEELS; AND BRAKE PARTS AND ASSEMBLIES) (37149)	Bumper assemblies, bumpers, and parts	37149 01 0			
29		Other (excluding bumper assemblies, bumpers, and parts) – Specify kind	37149 00 2			
30	REBUILT PARTS FOR MOTOR VEHICLES, EXCLUDING CARBURETORS AND ENGINE ELECTRICAL EQUIPMENT (3714A)	Water pumps	3714A 03 3			
31		Other (excluding water pumps) – Specify kind	3714A 00 9			
32	Search and detection, navigation and guidance systems and equipment (corresponds to the sum of item codes 4202-4382 as reported on CIR Form MA38B, Selected Instruments and Related Products)		38122 00 8			
33	Home, portable, and automobile radios and radio combinations (including CD) (corresponds to the sum of item codes 1134 and 1142 as reported on CIR Form MA36M, Consumer Electronics) (36511)*		36511 00 4			
34	ALL OTHER PRODUCTS MADE IN THIS ESTABLISH- MENT	Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. Specify unit of measure for quantity. For all remaining products, write "Other" and report a single total value.	18			
35			26			
36			34			
37			42			
38			59			
39			67			
40	CONTRACT WORK	Receipts for work done for others on their own materials Describe below products worked on and kind of work.	93000 00 8			
41	MISCELLA- NEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8			
42		Other miscellaneous receipts (including receipts for repair work, etc.)	99980 98 9			
43	RESALES	Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 10, line b.	99989 00 6			
44	TOTAL value of shipments and other receipts Sum of lines 1–43, column (E)		77000 00 8	\$		
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Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT									
INSTRUCTIONS									
1. Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.					3. Materials used to produce the items specified below should be reported in item 17.				
2. Purchases or receipts of the items specified below should be reported only in item 17.					4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.				
					5. Report quantities in the unit of measure specified in column (D).				
Line No.	Item (A)			Census code 591 (B)	Was this operation performed at this establishment during 1997?		Unit of measure for quantities (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment	
					592 (C)			593 (E)	
					Yes	No			
1	Ferrous foundries			1001 7	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons		
2	NONFERROUS FOUNDRIES (Except die-casting)	Aluminum		1002 5	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Thousand pounds ↑ ↓		
3		Copper		1003 3	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
4		Zinc		1004 1	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
5		Other		1005 8	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
6		Nonferrous die-casting foundries		1006 6	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
7	Precision turned products (on screw machines, turning centers, and CNC equipment)			1007 4	1 <input type="checkbox"/>	2 <input type="checkbox"/>			
Items 20 and 21 – Not applicable to this report									
REMARKS – Please use this space for any explanations that may be essential in understanding your reported data.									
Item 22. CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.									
Name of person to contact regarding this report (Print or type)					Telephone		Area code	Number	Extension
667 1					2				
Name of company					Address (Number and street, city, State, ZIP Code)				
Period covered		FROM: Month		Day	Year	TO: Month		Day	Year
666 1						2			
Signature of authorized person				Title				Date	